ABSTRACT

An apparatus and method for induction hardening a workpiece may first comprise the fastening a workpiece in a clamping assembly. The clamping assembly is provided with a plurality of hardness testing devices. Alternatively, one or more hardness testing devices are provided directly to the induction hardening head. The induction hardening head is moved over the workpiece to harden a portion thereof, such as an edge. Then, a series of hardness measurements are taken with the plurality of hardness testing devices to allow an operator or controller to adjust the input to the induction hardening head. This allows the workpiece to be provided with a predetermined hardness profile within a desired tolerance.